



Department of Energy  
Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

0074276

08-AMCP-0032

NOV 02 2007

Ms. Debra McBaugh, Section Head  
Environmental Radiation Section  
Washington State Department of Health  
P.O. Box 47827  
Olympia, Washington 98504

Mr. David Grant  
Aquatic Resources Division  
State of Washington  
Department of Natural Resources  
713 East Bowers Road  
Ellensburg, Washington 98926

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Addressees:

DEPARTMENT OF NATURAL RESOURCES LAND LEASE MONITORING REPORT  
FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT  
NO. WA 002591-7 OUTFALL 001 - SEPTEMBER 2007

The purpose of this letter is to forward for your review, the attached 300 Area Treated Effluent Disposal Facility, Department of Natural Resources monitoring data, as required by Aquatic Lands Sewer Outfall Lease 20-013357. The monitoring data for radionuclides present in the effluent are provided in the attached tables. The tables also include annual receiving water monitoring data. The data indicate that all values monitored are well below State guidelines. Reporting of the sample results are provided and transmitted to the Washington State Department of Health, according to Exhibit C of the lease. This report covers the reporting period from August 21, 2007, through September 25, 2007.

If you have any questions, please contact me, or you may contact Mark French of my staff, on (509) 373-9863.

Sincerely,

  
Matthew S. McCormick, Assistant Manager  
for the Central Plateau

AMCP:SKM

Attachment

cc: See Page 2

Addressees  
08-AMCP-0032

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NOV 02 2007

cc w/attach:

G. Bohnee, NPT  
A. L. Boyd, EPA  
K. A. Conaway, Ecology  
R. H. Engelmann, DFSH  
D. L. Halgren, FHI  
S. Harris, CTUIR  
R. Jim, YN  
K. Ogle, EPA (Seattle)  
M. Priddy, WDOH  
D. G. Ranade, FHI  
E. R. Skinnerland, Ecology  
H. T. Tilden, PNNL  
Administrative Record (300 Area Treated Effluent *H-0-7*  
Disposal Facility Liquid Effluent) and (Aquatic  
Lands Sewer Outfall Lease 20-013357)  
Environmental Portal

Hanford Site  
300 Area Treated Effluent Disposal Facility

**Monthly Monitoring Data**

September 2007

Analysis	Result (pCi/L)	State Standard (pCi/L)
Total Alpha	BDL <sup>(2)</sup>	15 <sup>(3)</sup>
Total Beta	3.40	50 <sup>(3)</sup>
GEA <sup>(1)</sup> – <sup>60</sup> Co	BDL <sup>(2)</sup>	3,000 <sup>(4)</sup>
<sup>137</sup> Cs	BDL <sup>(2)</sup>	1,000 <sup>(4)</sup>
Tritium	BDL <sup>(2)</sup>	20,000 <sup>(3)</sup>

- (1) GEA: Gamma Energy Analysis
- (2) BDL: Below Detection Limit
- (3) Standards for total alpha, total beta, and tritium from Department of Natural Resources Aquatic Resources Lease 20-013357
- (4) Washington Administrative Code 246-221-290 (Table II, effluent water)

Hanford Site  
300 Area Treated Effluent Disposal Facility

**Receiving Water Monitoring Data**

September 2007

Analysis	Upstream Sample Result (pCi/L*)	Downstream Sample Result (pCi/L*)	State Standard (pCi/L*)
Total Alpha	BDL <sup>(1)</sup>	BDL <sup>(1)</sup>	15 <sup>(2)</sup>
Total Beta	2.50	2.40	50 <sup>(2)</sup>
Tritium	BDL <sup>(1)</sup>	BDL <sup>(1)</sup>	20,000 <sup>(2)</sup>
Strontium-90	BDL <sup>(1)</sup>	BDL <sup>(1)</sup>	8 <sup>(3)</sup>
Combined Radium	0.03	BDL <sup>(1)</sup>	5 <sup>(3)</sup>
Total Uranium (µg/L)	0.50	0.49	30 <sup>(3)</sup>

\*Unless otherwise specified

(1) BDL: Below Detection Limit

(2) Standards for total alpha, total beta, and tritium from Department of Natural Resources Aquatic Resources Lease 20-013357

(3) Washington Administrative Code 246-290-310